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Trapezoidal Type

324 412 Long narrow adzes with symmetrical, trapezoidal cross-section form the trapezoidal type. (See Pl. A, 4 and fig. 7). This type has four definite surfaces which form angular margins. The front and back surfaces are roughly parallel, the back being wider than the front. On some adzes the back surface is slightly convex transversely. The front surface of this type narrows from edge to pole, thus it is triangular in form. The back surface is widest at the chin and narrows slightly towards the pole. The edge is sharp and straight. The bevel is slightly convex and forms a definite angle with the blade. Adzes of this type have been chipped and ground.

Variations. Adzes of the trapezoidal type vary in size. A small adze found at the mouth of a cave on Namuka measures 117 mm. long and 37 mm. at greatest width. An adze from Fulanga, with narrow, plane front surface, back deeply arched transversely, and flattened ovate cross-section, is a variation on the trapezoidal type, (See fig. 8). The exact form of this adze cannot be determined, because the front and bevel surfaces have been reground. The adze has been made roughly by the chipping-technique and the surfaces have been ground.

Rectangular Type

Flat adzes with rectangular cross-section are classed as the rectangular type (See Pl. A, 5 and fig. 9). Front and back surfaces of these adzes are plane and of almost equal width, although the back is slightly wider. The side surfaces are slightly convex transversely. The edge is wide and straight. The bevel is plane with definite chin. The pole is flattened. Most adzes of this type are chipped, ground, and polished. One specimen shows evidence of pecking and subsequent grinding. It is unpolished.

Variations. An adze from Vatoa (Pl. A, 6 and fig. 10) illustrates the large thick variety of the rectangular type.

Shell Adzes

● 321 412 There are several shell adzes in the collection. These adzes show a tendency toward angular margins and quadrangular form. One shell adze from Nasau village site,

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Namuka (Pl. A, 7 and fig. 11), resembles the rectangular type of stone adze, as does another shell adze found below the surface in Mbutonikoro garden, Fulanga (Pl. A, 8 and fig. 12).

Gouges

The collection contains two gouges. Both are fusiform with circular cross-section, similar in form and technique to adzes of the circular type. The bevel is narrow and concave transversely. The edge is curved. Both specimens are pecked and ground. The gouge illustrated in Plate A, 9 was found below the surface in Mbutonikoro garden, Fulanga. The other gouge was found on the surface at Velavela, Wangava. It is an unusally long and narrow implement. It measures 335 mm. long and 49 mm. at greatest width. It is composed of basalt and weighs 50 ozs.

Comparisons

The type of cutting-implements which have been described fall clearly into two groups; those with curved cross-section and convex surfaces and those with quadrangular cross-section and a tendency toward flat surfaces and angular margins. For the sake of classification I have called the first group Fijian and the second western-Polynesian. The Fijian group includes the circular and elliptical types, and the western-Polynesian includes the trapezoidal and rectangular types. About two-thirds of the 44 specimens from Lau which were examined fall into the Fijian group, while the remaining third may be classed as western-Polynesian.

Adzes similar to the circular and elliptical types are found in the Bishop Museum collection from Fiji proper and from the Marianas islands. Adzes of the rectangular type also occur in the Marianas collection.[4] Adzes of the elliptical type are common in Melanesia.

Adzes of the quadrangular or western-Polynesian type are found in the Bishop Museum collection from Tonga,

[4]See my "Archaeology of the Marianas islands," *Bishop Museum Bul.* 100, Honolulu, 1932, Plate 6 A (type 1, circular), 6 C (type 2, elliptical), 6 D (type 3, rectangular).

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ILLUSTRATIONS

Plate A. Adzes from the Lau islands.

1. Adze (C7283) circular type, found in a cave with skeletal material, Ongea island; composed of basalt; blade ground, butt pecked; fusiform narrows toward flattened, pecked poll, and toward slightly curved, narrow edge: back view showing bevel. Weight 24 ozs. 324 412
2. Adze (C7462) elliptical type, found on the surface, Embalailai garden near Muanaira, Fulanga; composed of basalt, ground and polished; truncate triangular form: back view showing flattened surface with plane bevel. Weight 9 ozs.
3. Adze (C7443) elliptical type, flat, found 5 centimeters below the surface at Nggali village site, Mothe; composed of basalt, ground: back view showing flattened surface similar in form to front. Weight 26 ozs.
4. Adze (C7288) trapezoidal type, from Vatoa, composed of basalt, quadrilateral with well defined angles: a, front polished, slightly convex longitudinally, narrowing from edge to flattened poll; b, back chipped and polished, is flat and wider than front. Weight 7 ozs.
5. Adze (C7293) rectangular type from Ongea, composed of basalt, chipped, ground and polished: a, front slightly convex longitudinally, slightly narrower than back; b, back flat. Weight 6 ozs.
6. Adze (C7289) rectangular type large, thick, from Vatoa; composed of basalt, pecked and slightly ground: back view showing plane surface. Weight 81 ozs.
7. Adze (C7433) of shell, from Nasau village site, Namuka; composed of tridacna, ground: a, front and b, back convex transversely and longitudinally, with edges narrowing toward flattened poll. Weight 4 ozs. 321 412
8. Adze (C7456) of shell, found 18 centimeters below the surface in Mbutonikoro garden, Fulanga; composed of tridacna, ground: a, front less convex than b, back. Weigth 1 oz.
9. Gouge (C7454) resembling adzes of the circular type, found 18 centimeters below the surface at Mbutonikoro, Fulanga; composed of basalt pecked and ground, fusiform with convex surfaces, narrow edge, and flattened poll; back view showing concave bevel, length 140 millimetres; depth 34 millimetres; cross section circular. Weight 10 ozs. 324 412

Figures (one-third actual size) by Edward Y. Hosaka.

Fig. 1—Adze (C7283) circular type: a, front; b, back; c, side showing similarity of profiles; d, cross-section circular, flattening toward edge.

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Fig. 2—Adze (C7286) circular type, small: a, front, well ground and polished, pecked above edge and at poll, front edge ground from resharpening; b, back, ground and polished, flattened; c, side shows edge almost equibeveled from resharpening; d, cross-section subcircular.

Fig. 3—Adze (C7287) circular type: a, front slopes from shoulder to edge and to poll; b, back flattened; c, side showing definite shoulder and chin; d, cross-section subcircular.

Fig. 4—Adze (C7462) elliptical type, truncate triangular form: a, front convex transversely and longitudinally with wide curved edge; b, back flattened with plane bevel; c, side convex; d, cross-section roughly elliptical.

Fig. 5—Adze (C7443) elliptical type, flat: a, front; b, back flattened and similar in form; c, sides also flattened with tendency toward angular margins; d, cross-section elliptical with tendency toward rectangular form.

Fig. 6—Adze (C7478) elliptical type, large: a, front, surface ground, slightly convex transversely; b, back blade ground, butt reduced by chipping, surface flattened transversely; c, side surface chipped, reduced toward poll; d, cross-section irregularly elliptical showing slight tendency toward angular margins.

Fig. 7—Adze (C7288) trapezoidal type, quadrilateral with well defined angles: a, front polished, slightly convex longitudinally, narrowing from edge to flattened poll; b, back chipped and polished, is flat and wider than front; c, side chipped and polished with definite chin; d, section symmetrically trapezoidal with front and back surfaces roughly parallel.

Fig. 8—Adze (B7925) trapezoidal variation: a, front narrow plane surface which has been reground and polished; b, back convex transversely, polished; c, side showing definite chin and reground bevel; d, cross-section flattened ovate.

Fig. 9—Adze (C7293) rectangular type, a, front slightly convex longitudinally, slightly narrower than back; b, back flat; c, side flattened, definite chin; d, cross-section rectangular.

Fig. 10—Adze (C7289) rectangular type, large: a, front plane; b, back plane; c, sides slightly convex; b, cross-section subrectangular.

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Fig. 11—Adze (C7433) shell: a, front and b, back convex transversely and longitudinally, wide edge narrowing toward flattened poll; c, side showing thin profile; d, cross-section irregularly elliptical with tendency toward angular margins.

Fig. 12—Adze (C7456) shell: a, front less convex than b, back; c. sides; d, cross-section irregularly elliptical with tendency toward angular margins.

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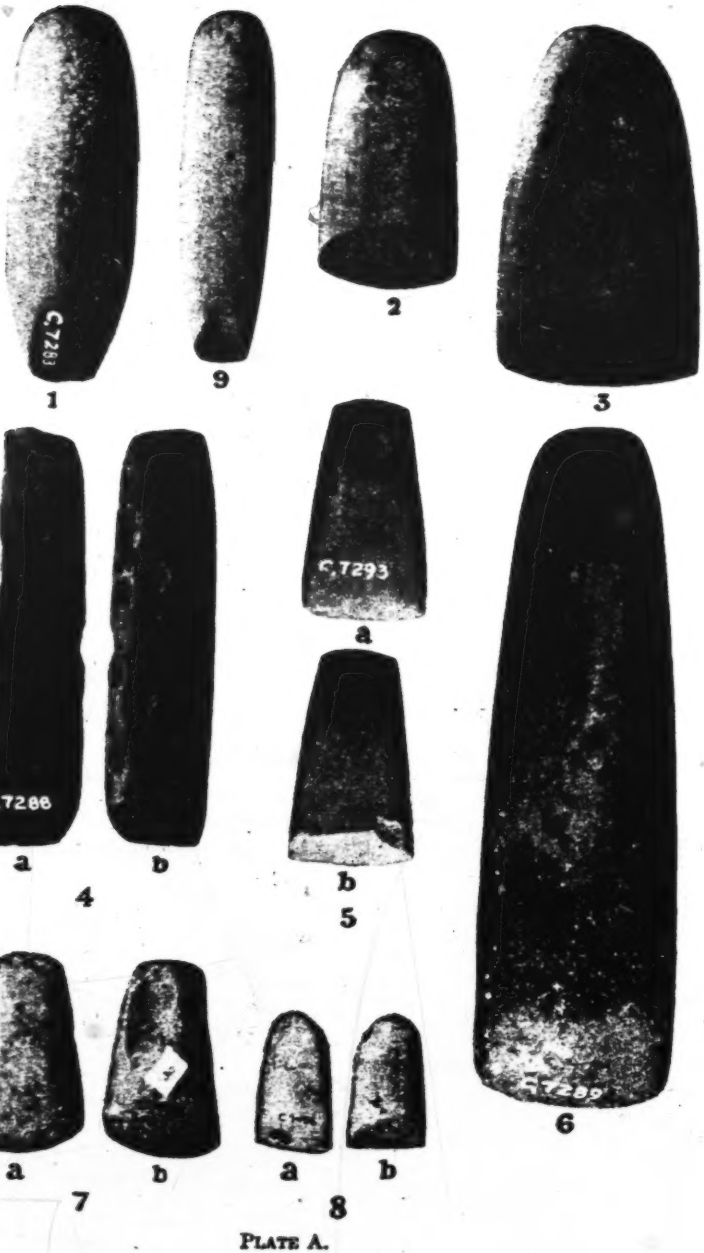

PLATE A.

[facing p. 104]

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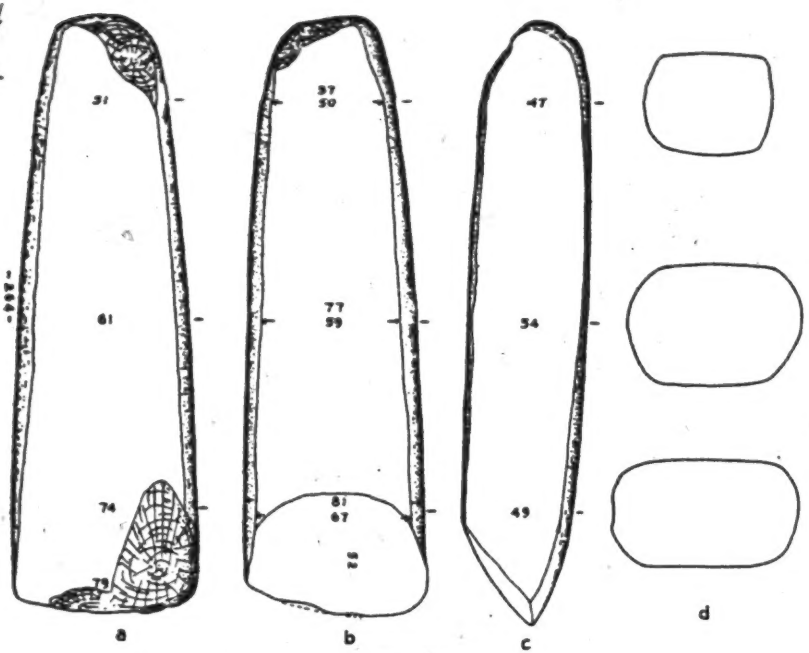

FIG 10

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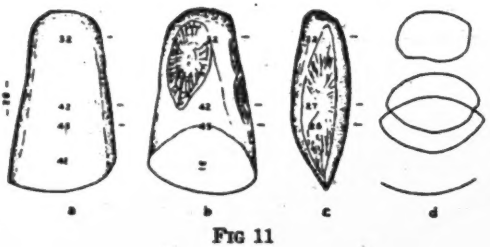

FIG 11

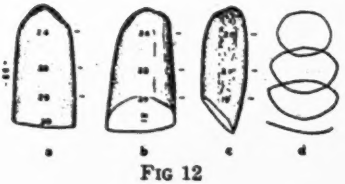

FIG 12

[pp 109-end, not processed]